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METAL MATERIAL HAVING GRAPHITE
FLUORIDE PENETRATED LAYER AND
PREPARATION THEREOF

Abstract:

PURPOSE: To suppress corrosion and scale adhesion, by forming a graphite fluoride penetrated layer with a predetermined thickness to the surface of a metal material.

CONSTITUTION: For example, a metal material is embedded in a mixture of hard charcoal particles and a solid carburizing agent and heated for a prescribed time to form a carbide penetrated layer to the surface of the metal material. This carburized metal material is heated at $370\text{W}570^{\circ}\text{C}$ in a fluorine gas stream. By this method, the corrosion of the metal material is prevented and scale adhesion to the metal material is suppressed.

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